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NOTICE OF ALLOWANCE AND FEE(S) DUE

03/30/2004

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213

EXAMINER

PAPER NUMBER

MORAN, TIMOTHY J

ART UNIT 2878

DATE MAILED: 03/30/2004

1	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	09/988,365	11/19/2001	Shinichi Morita	Q67233	8369

TITLE OF INVENTION: INFRARED DETECTING DEVICE

APPLN. TYPE	APPLN. TYPE SMALL ENTITY		PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	06/30/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE **Commissioner for Patents** P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590

03/30/2004

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/988 365	11/19/2001	Shinichi Morita	O67233	8369

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nonprovisional	NO	\$1330	<u> </u>	\$300	\$1630	06/30/2004	
EXAM	MINER	ART UNI	т	CLASS-SUBCLASS]		
MORAN, TIMOTHY J 2878				250-338100	_		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).				2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or 1			
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or category	ries (will not be printed on the patent);	🗅 individual	☐ corporation or other private group entity	y 🚨 governmen
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	☐ A check in the am	ount of the fee(s)	is enclosed.	
☐ Publication Fee	Payment by credit	card. Form PTO-	2038 is attached.	
☐ Advance Order - # of Copies	The Director is h Deposit Account Nu	ereby authorized mber	by charge the required fee(s), or credit any (enclose an extra copy of thi	y overpayment, to is form).
Director for Patents is requested to apply the Issue Fee a	nd Publication Fee (if any) or to re-apply	any previously p	oaid issue fee to the application identified ab	ove.
(Authorized Signature)	(Date)			
NOTE; The Issue Fee and Publication Fee (if require other than the applicant; a registered attorney or againterest as shown by the records of the United States P.	ed) will not be accepted from anyone ent; or the assignee or other party in atent and Trademark Office.			
This collection of information is required by 37 CFR obtain or retain a benefit by the public which is to f application. Confidentiality is governed by 35 U.S.C. estimated to take 12 minutes to complete, including g completed application form to the USPTO. Time wi case. Any comments on the amount of time you suggestions for reducing this burden, should be sent entered and Trademark Office, U.S. Department 22313-1450. DO NOT SEND FEES OR COMPLE SEND TO: Commissioner for Patents, Alexandria, Vir	athering, preparing, and submitting the II vary depending upon the individual require to complete this form and/or to the Chief Information Officer, U.S. of Commerce, Alexandria, Virginia TED FORMS TO THIS ADDRESS.			
Under the Paperwork Reduction Act of 1995, no	persons are required to respond to a			



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09/988,365 11/19/2001 Shinichi Morita		Shinichi Morita	Q67233	8369
7:	590 03/30/2004	EXAMINER		
SUGHRUE, MIC	N, ZINN, MACPEA	MORAN, TIMOTHY J		
2100 Pennsylvania Avenue, N.W.			ART UNIT	PAPER NUMBER
Washington, DC 2	UU3 /-3213		2878	
			DATE MAIL ED. 02/20/200	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 323 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 323 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)			
AL discuss Allegans by the	09/988,365	MORITA ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Timothy J. Moran	2878			
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	lication. If not include will be mailed in due	ed course. THIS		
1. A This communication is responsive to <u>amendment filed Man</u>	<u>ch 8, 2004</u> .				
2. The allowed claim(s) is/are 7-11.					
3. \boxtimes The drawings filed on <u>19 November 2001</u> are accepted by	the Examiner.				
 4. Acknowledgment is made of a claim for foreign priority unall a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 					
2. Certified copies of the priority documents have	been received in Application No	·			
3. Copies of the certified copies of the priority doc	cuments have been received in this r	national stage applica	tion from the		
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.					
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.				
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-9	948) attached			
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date					
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of			
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the			back) of		
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I			Note the		
Attachment(s)					
1. Notice of References Cited (PTO-892)	5. Notice of Informal Pa	atent Application (PTC	D-152)		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary ((PTO-413),			
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Date 8), 7. Examiner's Amendm	e ient/Comment			
Paper No./Mail Date 12/16/2003 4. ☐ Examiner's Comment Regarding Requirement for Deposit	9 M Evaminada Statama	nt of Doggood for Alle			
of Biological Material	 8. ☑ Examiner's Statement 9. ☐ Other 	iii oi reasons for Allo	wance		
5. Diological material	J. [] Ouiei				

Art Unit: 2878

DETAILED ACTION

Allowable Subject Matter

Claims 7-11 are allowed.

The following is an examiner's statement of reasons for allowance: Claim 7 includes limitations that a plurality of etching apertures are also formed on the diaphragm in an area different from the heat absorption area and is considered a nonobvious modification of prior art inventions such as Ajisawa.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J. Moran whose telephone number is 571-272-2443. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on 571-272-2444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

T.M.

TM

March 25, 2004

CONSTANTINE HANNAHER
PRIMARY EXAMINER
GROUP ART UNIT 2878